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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,868	09/08/2003	Sam Yang	2000-0719.01/US	1870
7590 06/13/2005			EXAMINER	
Kevin D. Martin			CHEN, BRET P	
8000 S Federal	Way			
MS 1-525			ART UNIT	PAPER NUMBER
Boise, ID 83707-0006			1762	
			DATE MAII ED: 06/13/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
0.00	10/658,868	YANG, SAM	
Office Action Summary	Examiner	Art Unit	
	B. Chen	1762	
The MAILING DATE of this comm Period for Reply	unication appears on the cover she	et with the correspondence add	ress
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU. - Extensions of time may be available under the provising after SIX (6) MONTHS from the mailing date of this control of the period for reply specified above is less than thing the second of th	JNICATION. cons of 37 CFR 1.136(a). In no event, however, rommunication. y (30) days, a reply within the statutory minimum in statutory period will apply and will expire SIX (6 eply will, by statute, cause the application to become the application of the constant of t	nay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this comon because the control of the control o	nmunication.
Status			
	filed on 2b)⊠ This action is non-final. on for allowance except for formal actice under <i>Ex parte Quayle</i> , 1935	• •	nerits is
Disposition of Claims	, ,		
4)⊠ Claim(s) 1-11 is/are pending in the 4a) Of the above claim(s) is 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) 1-11 is/are rejected. 7)□ Claim(s) is/are objected to 8)□ Claim(s) are subject to res	s/are withdrawn from consideration		
Application Papers			
	nber 2003 is/are: a) \square accepted objection to the drawing(s) be held in at ing the correction is required if the drawing the correction is required.	peyance. See 37 CFR 1.85(a). wing(s) is objected to. See 37 CFF	R 1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claimal All b) Some * c) None of Certified copies of the prior 2. Certified copies of the prior 3. Copies of the certified copies	ty documents have been received ity documents have been received es of the priority documents have be tional Bureau (PCT Rule 17.2(a)).	in Application No been received in this National S	tage
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review 3) Information Disclosure Statement(s) (PTO-1449 Paper No(s)/Mail Date	(PTO-948) Pape	riew Summary (PTO-413) r No(s)/Mail Date e of Informal Patent Application (PTO-1 :	52)
S. Patent and Trademark Office TOL-326 (Rev. 1-04)	Office Action Summary	Part of Paper No./Mail D	ate 060805 7

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7.

DETAILED ACTION

Claims 1-11 are pending in this application, which is a DIV of Serial Number 09/710626 now US Patent 6,617,248.

Specification

The disclosure is objected to because of the following informalities listed below.

Appropriate correction is required.

In the first sentence of the specification, an updated lineage of the present application should be provided.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1 line 6, the phrase "smooth-surfaced" is deemed a relative term which renders the claim indefinite. The term "smooth" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. The same issue applies to claims 4 and

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Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-11 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-14 of U.S. Patent No. 6,617,248.

Although the conflicting claims are not identical, they are not patentably distinct from each other because the elimination of forming a semiconductor device is an obvious variation.

Jin (6,479,100) discloses a method of forming a CVD ruthenium seed layer on a substrate by introducing a ruthenium-containing precursor and oxygen into a CVD apparatus and annealing the deposited seed layer in a gas ambient to form the ruthenium seed layer (col.2 lines 3-14) and is the most relevant art. Shiho et al. (6,875,518), and Agarwal et al. (6,596,583), and Lyons et al. (6,649,211) are cited as relevant art.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to B. Chen whose telephone number is (571) 272-1417. The examiner can normally be reached on 7:30am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bc 6/8/05

BRET CHEN PRIMARY EXAMINER